

28 October 1966

MEMORANDUM FOR: Director of National Estimates

ATTENTION :

[REDACTED] 25X1A

SUBJECT :

Submission of Tables by the NIPP  
Ad Hoc Naval Working Group for  
Section I of NIPP-67

1. Submitted herewith are NIPP Tables IC 1 through IC 5. It should be noted in these tables that the previous, arbitrary division of submarines into first and second line categories has been dropped. All submarines now are carried in an operational status. Submarines will be dropped from the operational category by transfer or by retirement, using other factors in addition to the factor of age.

2. Your attention is called to the NSA reservation which reads as follows:

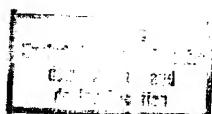
"The NSA representative agrees generally with the growth and change figures represented in this table but reserves on two points: (1) NSA disagrees with the 1962-1966 baseline figures preferring instead the baseline figures in the NSA footnote to NIE 11-8-66; and (2) NSA believes the growth rate of the Echo II class is and will continue to be 6 per year through at least 1968. This reservation applies to Tables IC 1 through IC 3."

25X [REDACTED]

Chairman,  
Naval Working Group

Enclosure:  
As Stated

~~SECRET~~



Approved For Release 2002/01/03 : CIA-RDP79R00978A000800030015-6  
OPERATIONAL SUBMARINES BY CLASS AT MID-YEAR 1/ 2/

	<u>1962</u>	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>
<u>Ballistic Missile Submarines</u>															
Nuclear (SSBN)															
H-I Class 2/	6-8	8-10	7-9	6-7	5-5	4-3	3-1	2-0	0	0	0	0	0	0	0
H-II Class 3/	0	0	1	2-3	3-5	4-7	5-9	6-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10
New Class	0	0	0	0	0	0	1	2-4	5-8	8-12	11-16	14-20	17-25	21-30	25-35
Total SSBN	6-8	8-10	8-10	8-10	8-10	8-10	9-11	10-14	13-18	16-22	19-26	22-30	25-35	29-40	33-45
Diesel (SSB)															
Z-Conversion 2/	7	7	7	7	7	7	7	7	7	6	4	2	1	0	0
G-I Class 2/	23-25	27-30	27-30	27-30	27-30	27-30	27-30	27-29	27-28	27-26	27-24	27-21	27-16	27-16	27-16
G-II Class 3/	1	1	1	1	1	1	1	1-2	1-3	1-5	1-7	1-10	1-15	1-15	1-15
Total SSB	31-33	35-38	35-38	35-38	35-38	35-38	35-38	35-38	35-38	35-38	34-37	32-35	30-33	29-32	28-31
Total SSBN and SSB	<u>37-41</u>	<u>43-48</u>	<u>43-48</u>	<u>43-48</u>	<u>43-48</u>	<u>43-48</u>	<u>44-49</u>	<u>45-52</u>	<u>48-56</u>	<u>51-60</u>	<u>53-63</u>	<u>54-65</u>	<u>55-68</u>	<u>58-72</u>	<u>61-76</u>
<u>Cruise Missile Submarines</u> 4/															
Nuclear (SSGN)															
E-I Class	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
E-II Class	0	<u>2-3</u>	<u>5-7</u>	<u>11-13</u>	<u>16-18</u>	<u>20-22</u>	<u>24-26</u>	<u>27-29</u>	<u>30-32</u>	<u>33-35</u>	<u>33-37</u>	<u>33-39</u>	<u>33-40</u>	<u>33-41</u>	<u>33-42</u>
Total SSGN	4	7-8	10-12	16-18	21-23	25-27	29-31	32-34	35-37	38-40	38-42	38-44	38-45	38-46	38-47
Diesel (SSG)															
W-Conversion	10	12	13	13	13	13	13	13	12	10	8	6	5-4	5-2	5-0
J-Class	0	0	<u>5-6</u>	<u>7-9</u>	<u>9-12</u>	<u>11-15</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>	<u>13-18</u>
Total SSG	10	12	18-19	20-22	22-25	24-28	26-31	26-31	25-30	23-28	21-26	19-24	18-22	18-20	18-18
Total SSGN and SSG	<u>14</u>	<u>19-20</u>	<u>28-31</u>	<u>36-40</u>	<u>43-48</u>	<u>49-55</u>	<u>55-62</u>	<u>58-65</u>	<u>60-67</u>	<u>61-68</u>	<u>59-68</u>	<u>57-68</u>	<u>56-67</u>	<u>56-66</u>	<u>56-65</u>
Grand Total Missile Subs	<u>51-55</u>	<u>62-68</u>	<u>71-79</u>	<u>79-88</u>	<u>86-96</u>	<u>92-103</u>	<u>99-111</u>	<u>103-117</u>	<u>108-123</u>	<u>112-128</u>	<u>112-131</u>	<u>111-133</u>	<u>111-135</u>	<u>114-138</u>	<u>117-141</u>

1/ The previous distinction between first and second line submarines has been dropped. This table shows the total number of submarines by class which are estimated to be operational in any given year.

2/ Equipped with SS-N-4 350 n.m. surface-launched ballistic missile.

3/ Retrofitted SS-N-4 unit now equipped with SS-N-5 700 n.m. submerged launched ballistic missile. We consider that this retrofit may allow for the accommodation in the future of an improved missile.

4/ Equipped with the SS-N-3 surface-launched cruise missile. For characteristics see Table 1C 7.

5/ The NSA representative agrees generally with the growth and change figures represented in this table but reserves on two points: (1) NSA disagrees with the 1962-1966 baseline figures preferring instead the baseline figures in the NSA footnote to NIE 11-8-66, and (2) NSA believes the growth rate of the ECHO II class is and will continue to be 6 per year through at least 1968.

NIPP-67  
TABLE 1C 2

SOVIET NUCLEAR-POWERED SUBMARINE  
Approved For Release 2002/01/03 : CIA-RDP79R0097A000800030015-6

Nuclear Powered Submarines 1/	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
<u>Ballistic Missile (SSBN)</u>															
H-Class	6-8	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10
New Class	0	0	0	0	0	0	1	2-4	5-8	8-12	11-16	14-20	17-25	21-30	25-35
Total SSBN	6-8	8-10	8-10	8-10	8-10	8-10	9-11	10-14	13-18	16-22	19-26	22-30	25-35	29-40	33-45
<u>Cruise Missile (SSGN)</u>															
E-Class	4	7-8	10-12	16-18	21-23	25-27	29-31	32-34	35-37	38-40	38-42	38-44	38-45	38-46	38-47
<u>Torpedo-Attack (SSGN)</u>															
N-Class	6-8	9-11	12-14	14-17	16-20	16-20	16-20	16-20	16-20	16-20	16-20	16-20	16-20	16-20	16-20
New Attack Class	0	0	0	0	0	0-1	1-3	2-5	4-8	6-11	8-15	11-20	14-25	17-30	20-35
Total SSN	6-8	9-11	12-14	14-17	16-20	16-21	17-23	18-25	20-28	22-31	24-35	27-40	30-45	33-50	36-55
Total Nuclear-Powered	16-20	24-29	30-36	38-45	45-53	49-58	55-65	60-73	68-83	76-93	81-103	87-114	93-125	100-136	107-147
<u>Construction Rate</u>	8-9	6-7	8-9	7-8	4-5	5-7	5-8	8-10	8-10	5-10	6-11	6-11	7-11	7-11	
<u>Diesel Powered 2/</u>															
Ballistic Missile (SSB)	31-33	35-38	35-38	35-38	35-38	35-38	35-38	35-38	35-38	34-37	32-35	30-33	29-32	28-31	
Cruise Missile (SSG)	10	12	18-19	20-22	22-25	24-28	26-31	26-31	25-30	23-28	21-26	19-24	18-22	18-20	18-18
Torpedo Attack	314	324	306	309	283	274-276	273-277	272-278	265-273	255-265	240-250	230-240	220-230	205-215	190-200
Total Diesel-Powered	355-357	371-374	359-363	364-369	340-346	333-342	334-346	333-347	325-341	313-331	295-313	281-299	268-285	252-267	236-249
Grand Total	371-377	395-403	389-399	402-414	385-399	382-400	389-411	393-420	393-424	389-424	376-416	368-413	361-410	352-403	343-396

1/ All types of nuclear-powered submarines are listed here for information in order to show the cumulative production of nuclear-powered submarines and the allocation of this production among types. The torpedo-attack submarines are not part of the strategic attack forces. Cruise missile submarines have the capability for strategic attack.

2/ All types of diesel-powered submarines are listed here for information in order to show the total size of the submarine force. The same comments on types apply as in Footnote 1.

3/ For the NSA reservation to the figures in this table see Footnote 5, Table IC 1.

Approved For Release 2002/01/03 : CIA-RDP79R00978A000800030015-6

NIPP-67  
TABLE IC 3

SOVIET BALLISTIC AND CRUISE MISSILE SUBMARINE FORCES  
OPERATIONAL SUBMARINES BY FLEET AREA AT MID YEAR, 1967, 1972, 1976 10/

	1967				1972				1976			
	Northern Fleet 1/ Fleet	Baltic Fleet	Black Fleet	Pacific Fleet 2/	Northern Fleet 1/ Fleet	Baltic Fleet	Black Fleet	Pacific Fleet 2/	Northern Fleet 1/ Fleet	Baltic Fleet	Black Fleet	Pacific Fleet 2/
<u>Ballistic Missile Submarines</u> 3/												
Nuclear (SSB)												
H-I Class 4/	3-2	0	0	1	0	0	0	0	0	0	0	0
H-II Class 5/	3-6	0	0	1	5-7	0	0	3	5-7	0	0	3
New Class 6/	0	0	0	0	8-11	0	0	3-5	17-24	0	0	8-11
Sub Total	6-8	0	0	2	13-18	0	0	6-8	22-31	0	0	11-14
Diesel (SSB)												
Z-Conversion 4/	4	0	0	3	4	0	0	2	0	0	0	0
G-I Class 4/	20-23	0	0	7	20-19	0	0	7-5	18-12	0	0	9-4
G-II 2/	1	0	0	0	1-5	0	0	0-2	1-10	0	0	0-5
Sub Total	25-28	0	0	10	25-28	0	0	9	19-22	0	0	9-9
Total Ballistic Missle Subs	31-36	0	0	12	38-46	0	0	15-17	41-53	0	0	20-23
<u>Cruise Missile Submarines</u> 3/ 7/ 8/												
Nuclear												
E-I Class	0	0	0	5	0	0	0	5	0	0	0	5
E-II Class	11-13	0	0	2	21-24	0	0	12-13	21-27	0	0	12-15
Sub Total	11-13	0	0	14	21-24	0	0	17-18	21-27	0	0	17-20
Diesel (SSG)												
W-Conversion 2/	6	3	1	3	3	2	1	2	2-0	1-0	0	2-0
J-Class	9-13	0	0	1	10-14	0	0	3-4	10-14	0	0	3-4
Sub Total	15-19	3	1	5	13-17	2	1	5-6	12-14	1-0	0	5-4
Total Cruise Missle Subs	26-32	3	1	19	34-41	2	1	22-24	33-41	1-0	0	22-24
Grand Total Missle Subs	57-68	3	1	31	72-87	2	1	37-41	74-94	1-0	0	42-47

Approved For Release 2002/01/03 : CIA-RDP79R00978A000800030015-6

SOVIET BALLISTIC AND CRUISE MISSILE SUBMARINE FORCES  
OPERATIONAL SUBMARINES BY FLEET AREA AT MID YEAR, 1967, 1972, 1976

## FOOTNOTES

1/ Distances from Kola Inlet, a Northern Fleet base: (in n.m.)

Iceland	1,500	Halifax	3,400
Iceland-UK gap	1,300	Bermuda or New York	3,800
Gibraltar	3,000	Norfolk	4,100

Panama 5,400

2/ Distances from Pacific Fleet bases: (in n.m.)

<u>From</u>	<u>To</u>	Petropavlovsk	Vladivostok
Manila		3,100	1,900
Singapore		4,200	3,000
Honolulu		2,800	3,800
Seattle		3,000	4,300
San Francisco		3,300	4,600
Los Angeles		3,600	4,900
Panama		6,500	7,800

3/ At present the Soviets have not established any continuous patrol pattern off the coast of the continental US. If they decide to establish a routine pattern of continuous patrolling by their missile-launching submarines off the coast of the continental US, the following maximum percentages of the nuclear and diesel-powered forces could be maintained continuously on patrol stations within missile-launching range of CONUS targets. W-Conversion classes are excluded because they are limited in range to operational factors summarized in Table IC 6.

Percent of Forces

Pacific Fleet-Nuclear	30
Pacific Fleet-Diesel	20-25
Northern Fleet-Nuclear	30
Northern Fleet-Diesel	12-15

4/ Equipped with SS-N-4 350 n.m. surface launched ballistic missile.

5/ Retrofitted SS-N-4 unit now equipped with SS-N-5 700 n.m. submerged launched ballistic missile. We consider that this retrofit may allow for the accommodation in the future of an improved missile.

6/ Probably equipped to carry a new or improved missile in eight or more launch tubes.

7/ Soviet cruise missile submarines were designed primarily for use against ships. However, they can be used for attack against land targets. These same submarines are listed also under Section III, Soviet General Purpose Naval Forces. The manpower, cost, and nuclear weapons implications of these submarines are included only under General Purpose Forces.

8/ Equipped with the SS-N-3 surface-launched cruise missile. For characteristics see Table IC 7.

9/ The several types of W-Conversion submarines are located as follows:

<u>Northern Fleet</u>	<u>Pacific Fleet</u>	<u>Baltic Fleet</u>
W Single Cylinder - 1	W Twin Cylinder - 1	W Long Bin - 3
W Twin Cylinder - 3	W Long Bin - 2	
W Long Bin - 2		

Black Sea Fleet

W Twin Cylinder - 1

10/ For the NSA reservation to the figures in this table see Footnote 5, Table IC 1.

APPROVED  
1

NIPP-67  
TABLE IC 4SOVIET BALLISTIC AND CRUISE MISSILE SUBMARINE FORCES  
PERSONNEL AND GUIDED MISSILE INVENTORIES PER UNIT

<u>Submarines</u>	<u>Crew</u>	<u>Direct Support</u>	<u>Total</u>	<u>SS-N-3 or Follow-on</u>	<u>SS-N-4</u>	<u>SS-N-5 or Follow-on</u>	<u>New Missile or Follow-on</u>
Z-Conversion	80	55-105	135-185	--	2	--	--
G-I	85	60-110	145-195	--	3	--	--
G-II	85	60-110	145-195	--	--	3 <sup>1/</sup>	--
H-I	100	70-130	170-230	--	3	--	--
H-II	100	70-130	170-230	--	--	3	--
New Class	110	75-145	185-255	--	--	--	8 <sup>4/</sup>
W-Conversion	60	40-50	100-140	2 or 4 <sup>2/</sup>	--	--	--
J	80	55-105	135-185	4	--	--	--
E-I	100	70-130	170-230	6	--	--	--
E-II	100	70-130	170-230	8	--	--	--
Additional Missiles in Inventory <sup>3/</sup> (per operational launcher)	--	--	--	1.0	0.25	0.25	0.25

1/ One G-II class submarine was converted to carry two SS-N-5.2/ See footnote following Table IC 6 for a description of the several W-Conversion types.3/ We assume 0.25 missiles per operational launcher are aboard support ships or on shore as maintenance spares. In the case of the cruise missile force, we assume an additional 0.75 missiles per launcher to provide replenishment for succeeding missions.4/ This class may have 8 or more tubes.

Approved For Release 2002/01/03 : CIA-RDP79R00978A000800030015-6

NIPP-67  
TABLE IC 5

SOVIET SUBMARINE BALLISTIC MISSILES  
TOTAL LAUNCHERS AND OPERATIONAL MISSILE INVENTORY BY SYSTEM AT MID-YEAR 1/  
AS = Launchers and Missiles Aboard Submarines 2/  
R = Operational Reserve (Maintenance Spares) 3/

SYSTEM	1962		1963		1964		1965		1966		1967		1968		1969	
	AS	R														
<u>SS-N-4</u> <u>4/</u>																
Aboard SSEN	18-24		24-30		21-27		18-21		15-15		12-9		9-3		6-0	
Aboard SSB	<u>83-89</u>		<u>95-104</u>		<u>95-101</u>											
Total	101-113	28	119-134	34	116-131	33	113-125	31	110-119	30	107-113	28	104-107	27	101-101	25
<u>SS-N-5</u> <u>5/</u>																
Aboard SSBN	0		0		3		6-9		9-15		12-21		15-27		18-30	
Aboard SSB	<u>2</u>		<u>2-5</u>													
Total	2	1	2	1	5	1	8-11	3	11-17	4	14-23	6	17-29	7	20-35	9
<u>New</u> <u>6/</u>																
Aboard SSBN	0		0		0		0		0		0		8	2	16-32	8
<u>Total Ballistic Missiles</u>	<u>103-115</u>	<u>29</u>	<u>121-136</u>	<u>35</u>	<u>121-136</u>	<u>34</u>	<u>121-136</u>	<u>34</u>	<u>121-136</u>	<u>34</u>	<u>121-136</u>	<u>34</u>	<u>129-144</u>	<u>36</u>	<u>137-168</u>	<u>42</u>

1/ For cruise missile inventories, see Table IIID 14.

2/ The "aboard-submarine" inventory equals one submarine fill (one missile per tube) for each submarine shown in Table IC 2, with the number of tubes per ship as indicated in Table IC 6.

3/ This operational reserve is assumed to be for maintenance purposes only; no additional reserve for refire is assumed. The "operational reserve," which is not in inventory has been computed at an assumed rate of 25 percent of the high end of "aboard-submarine" inventory.

4/ The SS-N-4 is a 350 n.m. surface-launched ballistic missile.

5/ The SS-N-5 is a 700 n.m. submerged-launched ballistic missile.

6/ We have arbitrarily assigned this missile only to the new class SSBN. The estimate assumes eight missiles per submarine.

NIEP-67  
TABLE IC 5 (Continued)

Approved For Release 2002/01/03 : CIA-RDP79R00978A000800030015-6

SOVIET SUBMARINE BALLISTIC MISSILES

TOTAL LAUNCHERS AND OPERATIONAL MISSILE INVENTORY BY SYSTEM AT MID-YEAR 1/ (Continued)

AS = Launchers and Missiles Aboard Submarines 2/

R = Operational Reserve (Maintenance Spares) 3/

SYSTEM	1970		1971		1972		1973		1974		1975		1976	
	AS	R	AS	R										
SS-N-4 <u>4/</u> Aboard SSBN	0		0		0		0		0		0		0	
Aboard SSB	<u>95-98</u>		<u>95-92</u>		<u>93-84</u>		<u>89-71</u>		<u>85-52</u>		<u>83-50</u>		<u>81-48</u>	
Total	95-98	24	95-92	24	93-84	23	89-71	22	85-52	22	83-50	21	81-48	20
SS-N-5 <u>5/</u> Aboard SSBN	24-30		24-30		24-30		24-30		24-30		24-30		24-30	
Aboard SSB	<u>2-9</u>		<u>2-14</u>		<u>2-20</u>		<u>2-29</u>		<u>2-44</u>		<u>2-44</u>		<u>2-44</u>	
Total	26-39	10	26-44	11	26-50	12	26-59	15	26-74	19	26-74	19	26-74	19
New <u>6/</u> Aboard SSBN	40-64	16	64-96	24	88-128	32	112-160	40	136-200	50	168-240	60	200-280	70
<u>Total Ballistic Missiles</u>	<u>161-201</u>	<u>50</u>	<u>185-232</u>	<u>59</u>	<u>207-262</u>	<u>67</u>	<u>227-290</u>	<u>77</u>	<u>247-326</u>	<u>91</u>	<u>277-364</u>	<u>100</u>	<u>307-402</u>	<u>109</u>

<b>TRANSMITTAL SLIP</b>		<b>DATE</b> 31 October 1966
<b>TO:</b> Director, ONE ATTN: [REDACTED]		
<b>ROOM NO.</b> 3-E-56	<b>BUILDING</b>	Hdqrs
<b>REMARKS:</b>		
<b>FROM:</b> Chief, F/NS ROOM NO. 3-G-01 BUILDING Hdqrs [REDACTED]		

## STATINTL

STATINTL